

# Motion Preservation Procedure Codes

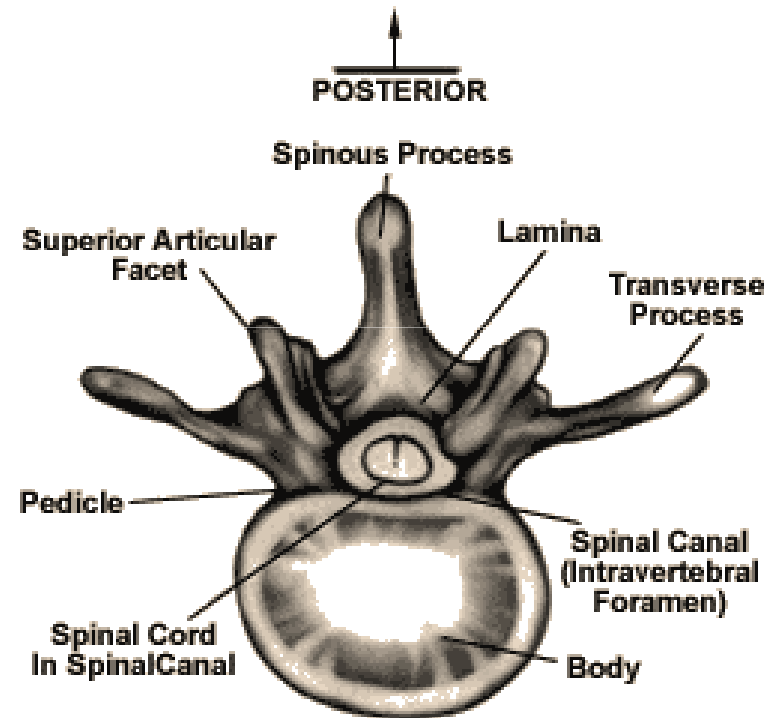
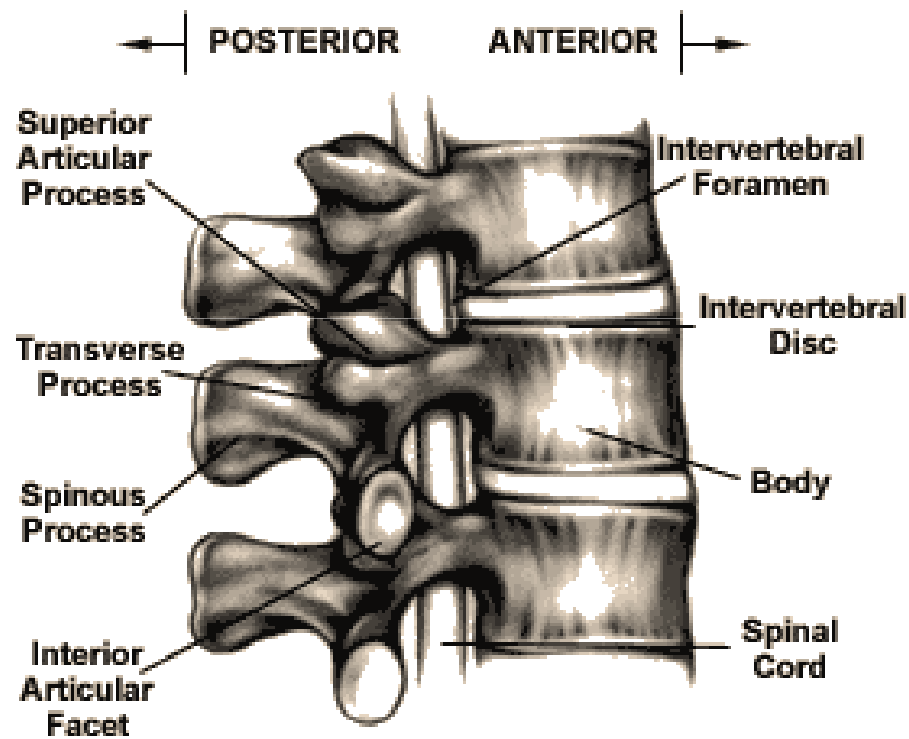
Hansen Yuan, MD

President, Spine Arthroplasty  
Society

# Who are we?

- The Spine Arthroplasty Society (SAS) is a group of medical and associated specialists devoted to the field of clinical and structural amelioration and restoration of the joints of the spinal column.
- The Society's focus is on restoration, or replacement and potential return to normal function lost by degenerative conditions of spinal joints, especially where prostheses or orthoses may be required to accomplish these goals.
- I am the President of the SAS

# Spine Anatomy



# What are the motion preservation categories for lumbar spine?

- **Posterior Column Devices – today's focus**
  1. Interspinous
  2. Pedicle Based Dynamic Stabilization
  3. Facet Replacement
- **Anterior Column Devices – codes are in place**
  1. Partial Disc Replacement
  2. Total Disc Replacement
- Note: “posterior” and “anterior” refer to location of device post-implantation, and not to approach
- All provide earlier treatment options compared to fusion

# How do the posterior column devices differ?

## Interspinous Devices: Examples

- X-Stop® Interspinous Process Decompression (IPD®)
  - Status - approved PMA
- Wallis® Stabilization System
  - Status - approved IDE
- Coflex™ Interspinous Stabilization
  - Status - approved IDE, enrolling



*Note: Various other interspinous devices are currently in development*

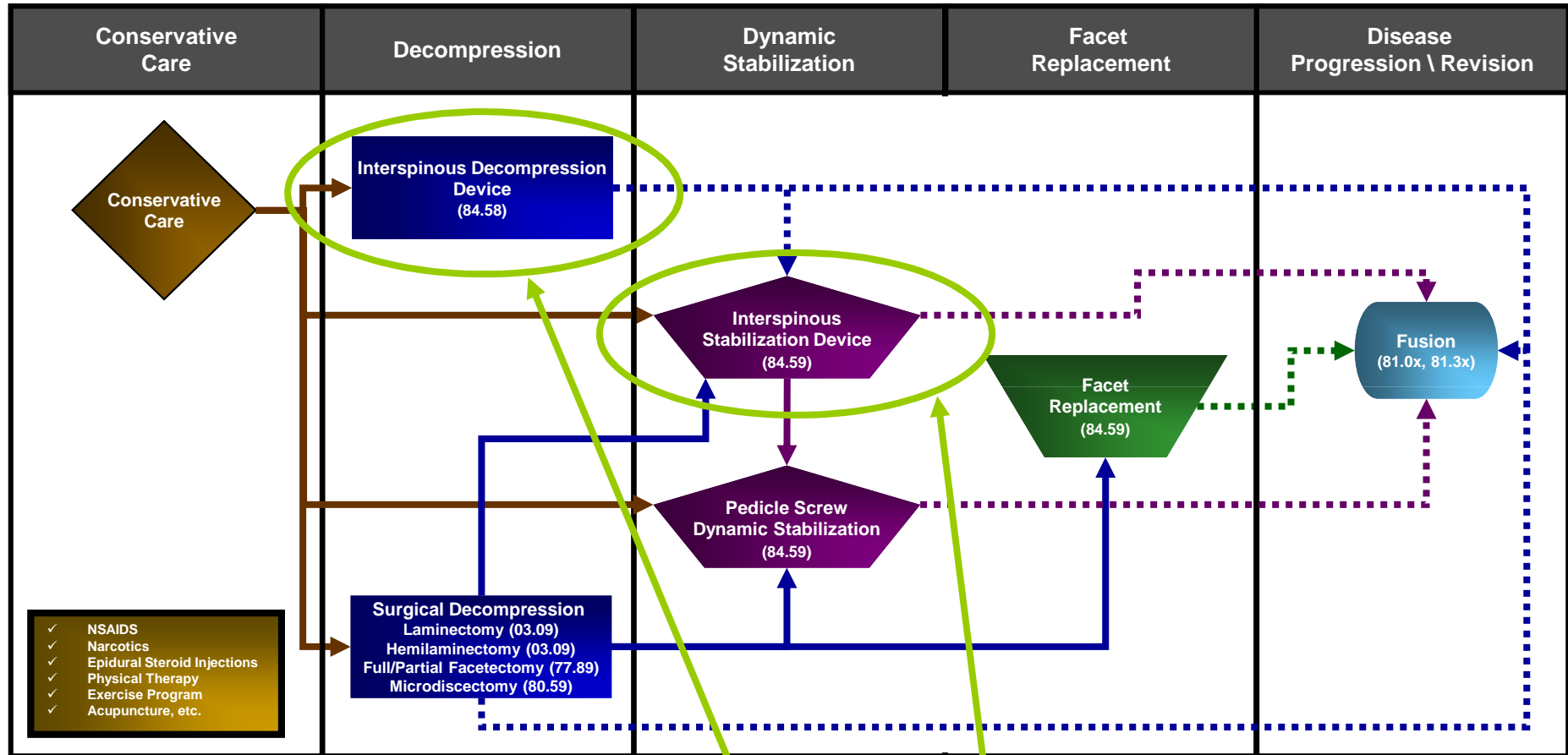
# How do the posterior column devices differ?

## Interspinous Devices: Design Principles

- Treat leg pain secondary to lumbar stenosis or mechanical back pain due to a degenerated disc
- Mode of action:
  - In general, devices act as a spacer between the spinous processes at the symptomatic level
  - Decompress and/or stabilize posterior column either with or without supplementary surgical decompression
  - Off load the disc at the treated level
- Earlier stage minimally invasive intervention

# Continuum of Spine Care

## Lumbar Spinal Stenosis Treatment Option Cascade (ICD-9-CM Diagnosis Code 724.02)



Interspinous Devices

# How do the posterior column devices differ?

## Dynamic Stabilization Devices: Examples

- Dynesys® Spinal System
  - Status - Approved IDE, enrollment complete
- Stabilimax NZ™ Dynamic Spine Stabilization System
  - Status – Approved IDE, enrolling

*Note: Various other dynamic stabilization devices are currently in development*





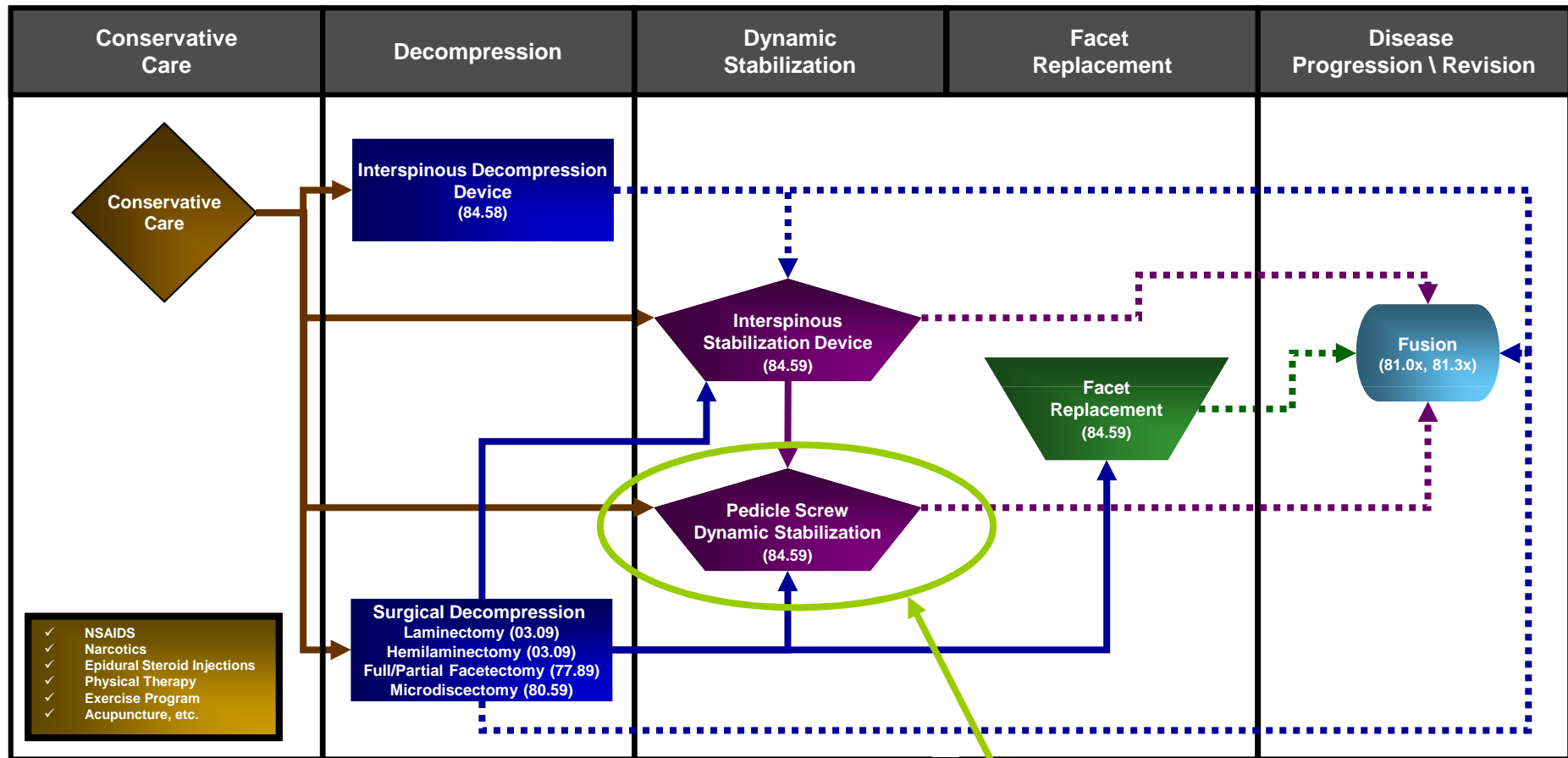
# How do the posterior column devices differ?

## Pedicle Based Dynamic Stabilization: Design Principles

- Treat leg/back pain due to stenosis and/or spondylolisthesis
- Mode of action:
  - In general, devices are pedicle screw based and provide posterior stabilization with or without surgical decompression
  - Create a more normal loading pattern across the disc without eliminating motion
- Mid-stage intervention with option for minimally invasive approach

# Continuum of Spine Care

## Lumbar Spinal Stenosis and/or Spondylolisthesis Treatment Option Cascade (ICD-9-CM Diagnosis Codes 724.02 and/or 738.4)



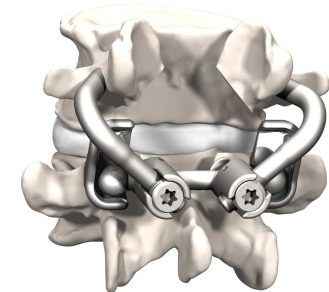
Pedicle Based Dynamic Stabilization

# How do the posterior column devices differ?

## Facet Replacement Devices: Examples

- Anatomic Facet Replacement System AFRS
  - Status – Approved IDE, enrolling
- Total Facet Arthroplasty System™ "TFAS®"
  - Status - Approved IDE, enrolling
- TOPS™ System
  - Status – Approved IDE, enrolling

*Note: Various other facet replacement devices are currently in development.*



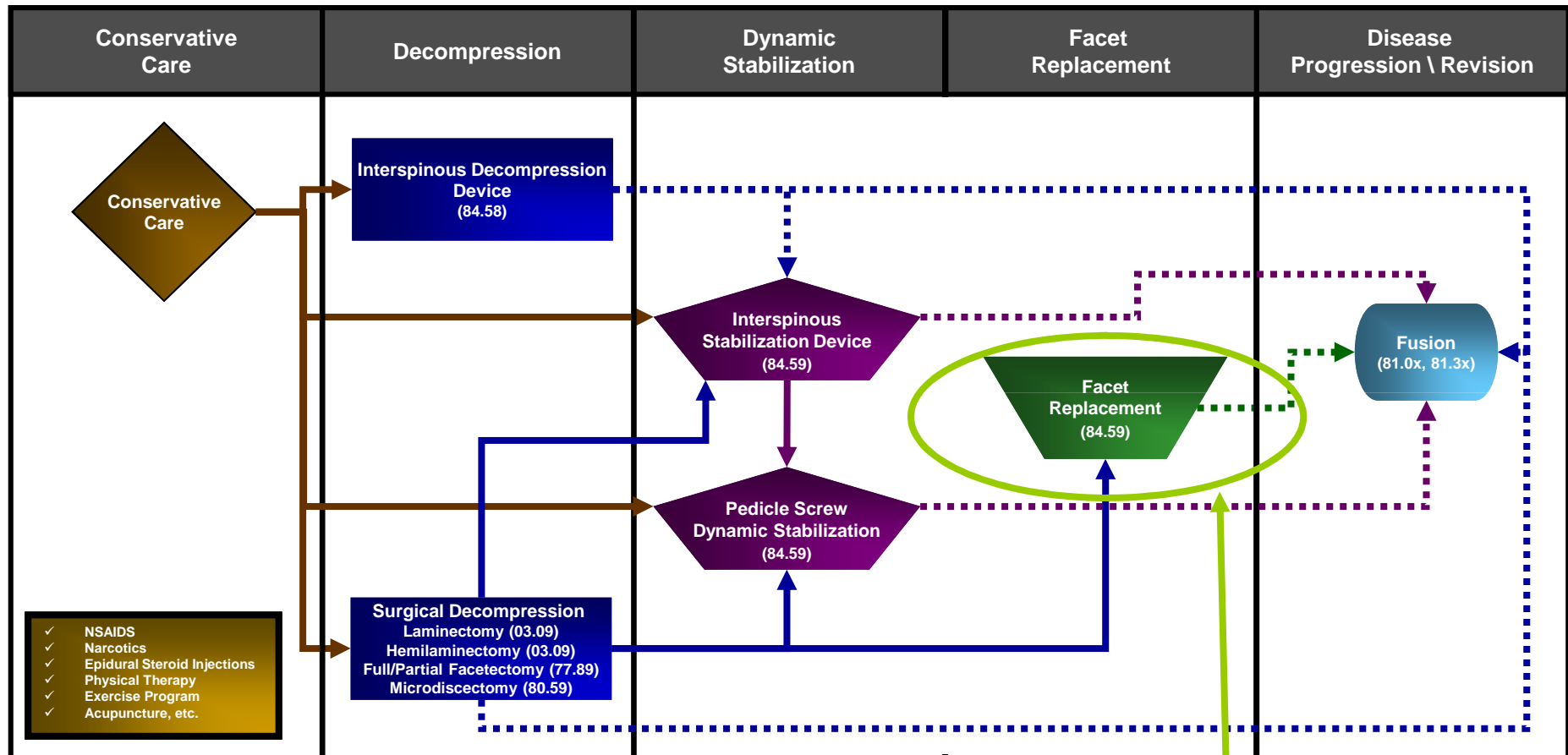
# How do the posterior column devices differ?

## Facet Replacement: Design Principles

- Treat leg/back pain due to stenosis or facet degeneration
- Mode of action:
  - Replacing degenerative facet joints while retaining motion and stability
- Later stage intervention

# Continuum of Spine Care

## Lumbar Spinal Stenosis Treatment Option Cascade (ICD-9-CM Diagnosis Codes 724.02)



Facet Replacement

# Questions?